INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/004227

			003/004227
A. CLASSIFIC Int.Cl ⁷	ATION OF SUBJECT MATTER G09F9/30, H05B33/12, 33/02, 3	3/14	
According to Inte	emational Patent Classification (IPC) or to both national	classification and IPC	
B. FIELDS SE.			
Minimum docum	nentation searched (classification system followed by classification syste	essification symbols)	
Titores		tsuyo Shinan Toroku Koho	fields searched 1996-2005 1994-2005
Electronic data b	pase consulted during the international search (name of de	ata base and, where practicable, search ter	rms used)
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.
х	JP 11-345688 A (TDK Corp.), 14 December, 1999 (14.12.99), Par. Nos. [0028], [0031]; Fig (Family: none)		1-8
х	JP 05-190285 A (Fuji Electric 30 July, 1993 (30.07.93), Par. No. [0012] (Family: none)	c Co., Ltd.),	1-8
A	& WO 9834437 A1 & DE	6344712 B1	1-8
× Further do	Further documents are listed in the continuation of Box C. See patent family annex.		
* Special category document do to be of particular application of the cartier application of the cartier application of the cartier application of the cartier of the carti	Special categories of cited documents: A document defining the general state of the art which is not considered to be of particular relevance E earlier application or patent but published on or after the international filing date C document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O document referring to an oral disclosure, use, exhibition or other means T later document published after the international filing date or prior date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone Y document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined after the international filing date or prior date and not in conflict with the application but cited to understand the principle or theory underlying the invention A document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined after the international filing date or prior date and not in conflict with the application but cited to understand the principle or theory underlying the invention A document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone Y document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is taken alone Y document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is taken alone Y document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		claimed invention cannot be dered to involve an inventive dered to involve an inventive claimed invention cannot be step when the document is documents, such combination e an family
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 167044/1986(Laid-open No. 72896/1988) (Nippon Seiki Co., Ltd.), 16 May, 1988 (16.05.88), Page 6, line 10 to page 7, line 7 (Family: none)	1-8
Y	JP 11-329743 A (Stanley Electric Co., Ltd.), 30 November, 1999 (30.11.99), Par. No. [0040] (Family: none)	4 - 6
У.	JP 8-54832 A (Nippondenso Co., Ltd.), 27 February, 1996 (27.02.96), Claim 8 (Family: none)	4-6